

Industrial Energy Efficiency Services

Background

- BPA aims to be an engine of the Northwest's economic prosperity and environmental sustainability.
- BPA strives for a power system that provides low rates consistent with sound business principles.
- Utility customers, federal agencies, and BPA have over a 20-year history of successful partnership and teaming with industrial consumers to pursue energy efficiency opportunities, one of the region's most cost-effective resources.
- Previous programs proved to generate savings and enable participating industries to reduce energy costs and be more competitive.
- BPA's industrial focus is providing consultants to participating electric utilities, federal agencies, and industries to assist with development of viable energy efficiency opportunities.
- Today, BPA continues its conservation mandate through the Conservation & Renewables Discount (C&RD) and the Conservation Augmentation (ConAug) programs.

Below are services offered through BPA and participating utilities.

ENVINTA One-2-Five Energy® and Energy Achiever® Process

BPA has contracted with ENVINTA to perform diagnostic services for industries. They identify barriers and opportunities for improving industrial productivity, including energy efficiency to help industry to understand the magnitude of energy costs and how to better manage these costs in a competitive environment.

Self-Audit Guide

BPA's Web site offers an industrial self-audit guide. Support is available to train utility and industrial customers to use this guide.

Reference: www.bpa.gov/Energy/N/Projects/Industrial.

Scoping Audit

A trained energy consultant performs a facility walk-through, identifies potential energy conservation measures with estimates of project costs and kWh savings, and recommends next steps which may include no-cost or low-cost measures.

Comprehensive Energy Audits

A trained consultant performs a detailed energy analysis using software and analysis tools, and may include metering. The audit provides vendor quotes for project costs.

Metering

BPA offers whole facility as well as sub-system metering to diagnose savings opportunities. The BPA

Industrial Web site lists general metering equipment and metering services for equipment troubleshooting, testing and performance verification.

Industrial-specific metering capabilities include:

- kW and kWh metering for projects, up to 600 volts.
- Data acquisition from instrument and control systems.
- Ambient temperature and relative humidity measurements.
- Lighting system measurements including light levels, hours of use, kW and kWh.
- Fan or pumping systems performance including flow and pressure.
- Motor and variable frequency drive (VFD) measurements including RPM, Hz, Amperage, kW, and kWh.
- Functional testing to confirm equipment is operating within expected parameters.

Consultants available

BPA has Master Agreements with industry consultants throughout the region to assist with energy audits, scoping studies, engineering and design studies, sub-metering and data analysis, and measurement and verification of industrial projects.

Next steps

Contact a participating utility or visit BPA's Web site: www.bpa.gov/Energy/N/index.cfm.

